

Collection No. 100

Woomera, etc.

25.ix - 23.x. 1960

S.A.

Chinnick, McCabe, Corby

Collecting Trip - Woomera - Wiluna
Via Giles, Maralinga, Colona.

25.9.60.

4771 Sand plain bearing *A. aneura*
Cupressus sp., *Typha* sp.

with *A. ligulata* and *E. pailsegi* as

occasionals. *Aristida arenaria* and

Neurachne sp forming the ground cover

with miscellaneous herbaceous annuals

scattered throughout. Area past its peak

with all ground strata species drying off.

Prenostictus striatus, *Umisia guttulosca*,

4778 Similar to above, but here

Coryphaster sp., *Apotropis vittata*, *Gonua* sp.,
conditions more favourable. Grass and

Azidota ochracea, *Collitera variegata*, *Umisia* sp.
herbaceous species green.

4843 Cooler Pedy.

4851 Camped.

26.9.60

4851 Departed 8am.

4896 Creek leading down from low

Apotropis vittata sp.

hill scarps. *A. aneura* dominant with scattered

E. freelingii and *Cassia* sp. *A. vesicaria*

as dominant ground cover but confined to

drainage channels. Vegetation sparse.

4933 Mt. Wolloughby.

4962 Wellbourne Hill

5038 Camped Wantapella Well (nr Granite Downs 5.45pm.

27-9-60

5038 Departed 7.20am.

5045 Turn off to Everard Pk.

5045 Sand plain with *Cassia* sp. as dominant
Coryphantha sp., *Chrostocetes terminifera*,
shrub strata with scattered *A. aneura*.
Uniscella sp.

Ground cover sparse composed mainly of
Bassia sp.

5049 Mica-schist outcrop with scattered
Moraba sp. P21, *Cuparossa* sp., *Papuostrictus*
A. kempiana. Widely spaced *A. vericaria*
seriatus, *Taipeta* sp., *Gingonov. 6* (?) sp. 2,
growing on the slopes. Sandy at base
Uniga gutbulosa
with small water wash bearing miscellaneous
annuals including herbaceous *helichrysum*.

Moralines not confined to any food plant
as far as could be determined.

5058 Granite knolls bearing scattered
Apotrope vittata, *Qualitza maculata*,
A. aneura and several large wild fig trees.

Desertaria sp. 2

In rock crevices *Sida corrugata* growing in dense clumps. Ground cover on sandy areas between boulders covered with small composite. Odd *A. kempiana* also present. Vegetation of soil strata dry or drying off.

5068 *A. aneura* sandplain, with *A. aneura*, *Urtica guttulosa*, *Stropis maculosa*, dominant and occasional *C. latrolii* and *Azclota ochracea*, *Collitera variegata*, *Apotropis*, *Cassia* sp as shrub layer. *Eragrostis aeropoda villosa* tussocks scattered throughout. Together with miscellaneous annuals. [dry]

5069 Creek lined with *Eucalyptus alata*, *Urtica guttulosa*, *Apotropis villosa*, *Collitera*. Occas. *A. victoria* along the banks with *variegata* grassy patches on the sides.

5075 Granite hills bearing *A. kempiana* with *Sida* and *Solanum* sp and *guttulosa*, *Chorizandra tenuifera*, *Eragrostis aeropoda*; much dead debris of annual pastures. All dry.

5087 Everard Pk 4.5.

5091 Sand plain and gully leading up between two granite hills, one a

Genus nov. 56 sp. 2 (j.), *Callitpa variegata*,
a granite monolith. Greenish vegetation
Urnisa guttulosa, *Gonysia* sp., *Chorizandra*
of *Cyperaceus* sp. ferns and *Themida*. Euc.
Leptocarpus, *Asplenium sulphuripinnis*,
Camaludensis and *E. porosa* at base of
Pycnostictus acriatus, *Agelota ochracea*,
monolith. Sand plain with *A. anura*
Strophis maculosa, *Tapesta* sp.
and dead miscellaneous annuals many
of which were composites.

5103 Mulga sand rise. Timber *A. anura*
Urnisa guttulosa, *Strophis maculosa*,
mostly dead. Ground cover excellent
Ruphracris guttulosa
composed of *Neurachne* sp., *Erag. aenopoda*
Amaranthus sp., *Myrocephalus* sp., *Helipterum*
sp., *Senecio* sp. all drying off but often
green at base. Many 2nd instar *Urnisia*
sp. nymphs.

5108 Ridge of granite horn blende in curious
Urnisa guttulosa, *Desertaria* sp. 2
blocky structure (backbone like) about 3-4 ft
thick and up to 50 ft high. *Cassia* sp
on lower slope and *Myrocephalus*
Myrocephala sp. as
dominant ground cover on surrounding plain

5120 Limestone travertine ridge bearing
mallee Euc. *Geosa*
Amos car. glauca. Ground cover

Austracris guttulosa, *Gonimaea* spp. (2), sparse consisting of *Bassia* sp. and occas. *Apotropis sulphurifera*, *Qualitella* *Senecio gregoryi*. Stumps of dead *K. sedifolia* *maculata*, *Pycnostichus seriatus* are all that remain of the former shrub cover. Ground cover dry.

5131 Camped 6pm. [7pm - 9.30pm]

28.9.60

5131 Departed

5135 Sandy rise with *A. victoriae* mostly *Apotropis sulphurifera*, *Tapscottia* sp. dead and patches of *Spinifex* (*Triodia scarosa*)

miscellaneous dry annuals on inter-tussock

space. No specimens from *Triodia*

5140 Red desert sandhill bearing *A. estropho-*

Pycnostichus seriatus, *Austracris* *lata* and *A. victoriae*. Ground cover mainly *guttulosa*, *Azidota ochracea*, *Desertaria* *annuals*, *Mycocphala* sp. with scattered tufts *longirugosa*, *Umisa guttulosa* of *Anstida arenaria* and *E. aeropoda*. Cover

predominantly dry. *A. murrayana* in dense thickets widely spaced.

5144 Kenmore Park Turned back to Kulgera express.

5191 NT-S.A. border fence.

Kulgera at 5216 Now retracing to
Kenmore Pk.

5230 Mulga sand plain bearing *A.*
Callitera variegata, *Austrobaileya*
anacardiifolia occas. *A. tetragonophylla* and
guttulosa, *Ulmus guttulosa*
Hakea sp (corkwood) Ground cover extremely
low and consists mainly of plant
debris. Area drought devastated.

5236 Camped. 8 am - 5.30 pm [7-8 pm]

29-9-60

5236 Departed.

5241 Victory Downs H. S.

5242 Shallow creek area between low
Moraba sp. P21, *Coryphantha* sp., *Senecio* nov.
hills. Hills timbered with *A. anacardiifolia*, *A. kompiana*.

6(?) sp. 2
Creek bordered with *Cassia* sp. *Euc. camaldulensis*
A. tetragonophylla and occas. *Grevillea* (beefwood)
Ground mainly ^{annual} plant debris margins of
creek with *Eragrostis* sp. *Aristida*, some *Bassia*
paradoxa and flowering *Crotalaria* sp.
Morabines found amongst debris.

5251 Mulga sand plain, rather bare with
Tappaya sp.
 only scattered remains of annual plant growth.
A. aneura, *A. kempiana* with scattered *Cassia*
eremophila.

5263 As for above with *A. kempiana* replacing
Umisaguttulosa
A. aneura as dominant.

5270 Granite knolls within a *A. aneura*
Desertaria sp. 2
 sand plain, bearing *Eremophila latrobi* and
 several native figs (*Ficus* sp) *Enneapogon nigrescens*
 and *Eragrostis scopoda* dominant plant cover
 between rocks. Occas. *Solanum* sp on more
 sheltered spots vegetation apart from shrubs
 and trees dry. Sight record of *Catesba* (1) and
Apotropis sp (1).

5278 Granite hills bearing *Callitris glauca*
Umisaguttulosa, *Austrobaena*
Spearwood (*Tacomba*) *Eremophila latrobi*.
guttulosa
 Very little cover, *Enneapogon* remains
 principally. Occas. *Amaranthus* sp. in flower
 otherwise bare. Very dry.

5288 Menmore Pk.

5291 Granite hills - outliers to the Musgroves

Apotropis sp. 4, *Amisaguttulosa*, *Moraba*
A. aneura *Eremophila latrobia* dominant sp.

sulcata, *Pycnostictus striatus*, *Genus*
Mixed grasses and herbaceous annual chief of
nov. 56 sp. 2, *Azylota ochracea*, *Chortolites*
which appears to be *Enneapogon* sp.

terminifera (f.), *Coryphostegia* sp., *Parbellia*
Ground cover still intact although dry.

picta (f.), *Genus* nov. 5 (?) sp. 7
Numerous 1st & 2nd instar acridids.

5296 Musgrove sa. yes, granite hills

Desertaria sp. 2, *Pycnostictus*
covered with *spinifex* (*Triodia vertens*) *Odd*
seriatus, *Azylota ochracea*
scattered *A. aneura* on hills but mainly

concentrated around base of hill. *Eremophila*

latrobia also at base. Sandy approach

to hill covered with *Anstidia arenaria*.

All dry. *Spinifex* has seeded and

decidedly haying off.

5303 Granite hills in the Musgroves as

Moraba sp. P21, *Amisaguttulosa*,
above with the exception that *Triodia*
colliterna variegata, *Apotropis* sp. 4, *Azylota*
has become subordinate *Enneapogon* sp.

ochracea, *Pycnostictus striatus*,
Eragrostis aeropoda and mixed herbaceous
Desertaria sp. 2, *Genus* nov. 5 sp. 7

dicots. Again good cover but dry.

5312 Enabella Mission

No. 19

Genus nov. 56 sp. 2, *Chortocites* *terminifera*,
Umisia *guttulosa*

5312 Depart 30-9-60

5314 *Atriplex nummularia* covered valley
high *Apotropis* sp. 4, *Callitera*
floor between hill covered in *spinifex*
variegata, "*Macraeglotia* *ceruina*, *Desertaria*
(*Tridax*) Little cover other than saltbush
sp. 2, *Azelota* *ochracea*, *Macrolopholia* sp.,
and *Tridax* *Austracris* *guttulosa*

5315 Creek Xing

5326 Small rock Gneiss knoll bearing
Callitera *variegata*, *Austracris* *guttulosa*,
occas. *A. aneura*, and odd *A. tetragonaphylla*,
Umisia *guttulosa*, *Apotropis* *sulphuripennis*,
Pasture dry except for *Amaranthus* sp.
Desertaria sp. 4, *Chortocites* *terminifera*, *Qualetha*
and scattered *Trichinum* *obovatum*, *Eragrostis*
maculata, *Azelota* *ochracea*, *Desertaria* *longirugosa*,
aeropoda *calotis* sp and *Eriopogon* *dominant*
Genus nov. 5(?) sp. 7, *Apotropis* sp. 4
ground cover.

* [5329] fly trap. [1] lunch time

5334 *Atriplex nummularia* depression
Typha sp., *Austracris* *guttulosa*, *Umisia*
with scattered *A. estrophyllata*, and occas.
guttulosa, *Apotropis* *sulphuripennis*,
Nakea *launina*. Inter-bush space bare
except of growth of *Eragrostis* *parviflora* in
shallow depressions.

5337 Creek Xing.

5337 *Atriplex nummularia* as well understory

Apotropis sulphurifemur (?), *Tyrpaya* sp.,
to *Euc. intertexta* (mallee form). Remnant's
Ghostocheilosternum sp., *Goniocorda* spp. (2),
of annual cover consisting of *Calotis* sp.,
Urtica guthulosa, *Colliterra variegata*, *Azclota*
Senecio gregoryi and *Helitriptum florabunda*.
Ochracea
Cover dry.

5341 Sand plain adjoining ranges.
Urtica guthulosa, *Austrotricus guthulosa*,
Sand plain bearing scatter^{ed} *A. kempiana*.
Colliterra variegata, *Goniocorda* sp. 1,
and *H. laura*. Ranges spinifex covered
Pycnostictus seriatus, *Microcala* sp. 7, *Azclota*
with scattered *Euc. terminalis*. Ground cover
Ochracea
mainly debris from miscellaneous annuals.

5347 (Waterhole) Rocky creek leading out of
Moraba sp. P21 (2) (?), *Goniocorda* sp. 1,
ranges lined with *Euc. cammaldulensis* Stony
Azclota ochracea, *Goniocorda* sp., *Pestellia picta*,
Mulga plain adjoining with *H. laura*. and
Leichth. nov. 5 (?) sp. 7, *Pycnostictus seriatus*
occas. *Aestrophylata*. Ground cover dry composed
of *Calotis* sp (dry) *Themida australis* along
creek banks & channel banks, with odd

Rhagodia sp at base of trees. (*Eoliunyawanya*)

5358 Small stony knoll in a wide
Conophtheca sp., *Desertania* sp. 4,
Aaneura sand plain. Shrubby growth on
Colliterra variegata, *Tapesta* sp.
stones, odd *Aaneura* with *Cremophila*
sturtii. Surrounding flat area *Aaneura*

with odd *Hakea laurca*. Plant cover under mulgas mainly annuals, *Myriocephalus* sp. and *Senecio* sp, on knoll, *Erneapogon nigriscens* dominant with *Aristida arenaria* in rock crevices. *Amaranthus* sp common.

5366 Camped 5.45pm [7.30pm - 10pm]

1.10.60

5366 Depart. 7.45pm.

5374 Sand plain bearing *Aeneura*.

Macrolopholia sp., *Tappista* sp., *Chorizandra*, *Aristida arenaria* in patchwork mosaic, *Lernaeifera*, *Pycnostictus seriatus* with mixed miscellaneous herbs, *Salsola hale*, *Helipterum florabunda*, and *Erodium* sp with odd small *Kochias*. Dry except for *Kochias*.

5382 Ranges (Murgrees) Mulga sand plain

Macrolopholia sp.; *Strophisma maculosa*, leading up to base of ranges. Highest points *Apophis* ~~ultramarina~~ ^{ultramarina} A. sp. 14, *Callitris* with *Callitris glauca* and lower slope *A. aeneura* *variegata*, *Urena guttulosa*, *A. kempeana* and odd *A. tetragonophylla*

Pasture completely dry except for odd plants of *Thomida*, *Digitalis brownii*, and

Amaranthus sp. Bulk of cover, short *Lepidium* sp, *Callotis hispidula*, all dry.

5393 Cross country to strike main road.

5395 *Triodia* covered stony hill. Scattered *Apatropis* sp. 4, *Azelota ochracea*, *Stropis* *A. aneura* - odd *A. tetragonophylla*. Ground *maculosa*, *Cafespa* sp. 4, *Callitria variegata* cover all *Spurifex* except in some rock crevices where *Digitaria brownii* occurs.

5404 Sand plain bearing *A. aneura* *A. Rustracrioguttulosa*, *Unisa guthrieana*, *Kempiana* and *Cassia eremophila*. *Triodia* *Apatropis sulphuripennis*, *Azelota ochracea*, *Basedowii* (1st occurrence). Together with *A. sp. 1*, *Rhusia* *triplex*, *Pycnostichus* mixed herbaceous cover. *Myriocephalus* sp. *sericus*, Genus nov. 48 sp. 1, *Unisaella* sp., *Amaranthus*, *Aristida arenaria* and *Eragrostis* *Callitria variegata*, *Stropis maculosa*, *Paspalia setifolia*. Mixed green and dry pasturage. sp. 10, *Plantana longirugosa* *Warramunga* 1st instar nymphs numerous in some instances on the *Triodia*.

5410 Sand plain with a stand of *A. Rustracrioguttulosa*, *Unisa guthrieana*. Ground cover good part dry & *Coryphosia* sp., *Unisa guthrieana* sp. 1, *Unisa* part green composed of *Myriocephalus* sp. *Sanecio gregoryi*, *Erodium* sp (dry) *Aristida arenaria* and *Salsola kali*

5414 Sand plain. *Triodia basedowii* extensive
Azelota sp. 1, *Ruscuphia hirtis*, *Umisella* sp.,
 with *Parakeelya* sp along side the road. No
Austroripidulosa
 other vegetation.

5422. Sand west bearing *Cas. decaseiana*
Umisa guttulosa, *Apobryopsis sulphurea*,
A. ligulata with an understory of *Triodia*
Ruscuphia hirtis, *Azelota* sp. 1, *A.* sp. 11,
basedowii. Some scattered *Myrocephalus* sp
Austroripidulosa, *Umisella* sp.
 and yellow *Helipterum* sp.

5427 Sand rise bearing *Cas. decaseiana*.
Moraha sp. 21 (?) (*g*) *Uvarumia* sp. P. 11,
 with a small *Eremophila* sp in clumps.
Ruscuphia hirtis, *Azelota* sp. 1, *A.* sp. 1,
Odontotheria sp. Understory of *Triodia*
Microlopha sp. 7, *Umisella* sp., *Macrotoma*
basedowii and scattered *Parakeelya* sp,
 sp. 15
Amaranthus and *Myrocephalus* with odd *Senecio*

gregoryi. *Apobryopsis sulphurea*, *Azelota* sp. 1
 5434 *Euc gamaphylla* *Triodia basedowii*
Umisa guttulosa, *Ruscuphia hirtis*,
 on red sand plain - scattered *Compositae*
Deschampsia longigosa, *Umisella* sp.,
 with *Parakeelya* formed a sparse pasture sward.

5442 Mann Range. Rocky boulders with
Macroloba latifolia, *Callitris virgata*,
Callitris glauca, *A. ramulosa* and *A. aneura*.
Deschampsia sp. 11, thick *D. longigosa*,
 leading down onto a *A. amara* stand on
Apobryopsis sp. 11, *Umisella* sp. 5(?) sp. 2, *Gen. nov.* 6(?)
 adjoining sand plain. *Emesfogor* and sp. 3
Umisella sp. 6(?) sp. 2

Catappa sp. 11. Geniv. nov. 56 sp. 2,
Digitaria brownii among rock crevices. Kochia
Pycnostichus, Perbellia picta
Georgi and dead remains of Erodium cymosum
present. Overall picture of dry, pastured
Geniv. nov. 56 sp. 2, Apotropis sp. 4, Refusa sp. 1

5450. Aristida acuticarpa dominant with
Geniv. nov. 6(?) sp. 3, Geniv. nov. 6(?) sp. 5,
areas of Enneapogon sp and stunted Lepidium
linum guttulosum, Macrogloma curvica (L.)
on large stoney hillside. Pasture dry.
Perbellia picta, Buharia sp., Sesuvium sp. 4
Camped 5.30pm [7.30pm - 11.30pm]

5450 2.10.60 Depart. 7.30

5452 Well weathered stoney hill bearing A.
linum guttulosum, Perbellia sp. 7, Pycnostichus
aneura. Ground cover consisting of small Lepidium
aneura, Geniv. nov. 6(?) sp. 2, Anura sp.
sp. Enneapogon sp. Myriocephalus sp. Solanum kali
guttulosum, Buharia sp.
and Heliotropium floribundum. All species dry.

In larger rock masses Eragrostis setifolia present
and occas. Solanum sp.

[5460] Mileage peg ← Mulga Pk 110. Mt Davies 60 →

5462 Extensive sand plain covered with
varanunga sp. PW11, Geniv. nov. 48 sp. 1,
Triodia basedowii. Cas. decussata in scattered
Microgla sp. 5, Azela sp. 1
clumps together with shrubby Hakea sp

No other ground cover.

5471 Stand of A. aneura with an understory
guttulosum, Coniarcia sp. 1 (?), Apotropis

sulphurifera, *Macrolophia* sp.

of *Bassia* sp and mixed herbaceous sp.

5481 Area of travertine limestone bearing
Urtica sp., *Rhus* sp., *Urtica*
A. ligulata and *murrayana* with occas.

guthrieana, *Apotrophia sulphurifera*,
Euc. terminalis, *Triodia basedowii* and
Azizotia ochracea, *Urtica* sp., *guthrieana*
T. pungens as mixed community. Annual

cover sparse on limestone area, composed of
Salsola kali, *Eremophila*, *Trichium* sp

and both *Amaranthus* sp and *Sida corrugata*.

Macrolophia ocellata (Hillson), *Pycnostichus*
5491 Stand of *Araucaria* both living and
serotinous, *Macrolophia* sp., *Urtica guthrieana*,
dead with own understorey of *Bassia*
Azizotia ochracea, *Apotrophia sulphurifera*

5492 A Turn off to Lake Wilson

5492 Tomkinson Range. Steep rocky hill
Apotrophia sulphurifera, *Desertiana* sp. 4,
bearing scattered *A. aneura*. *Digitaria brownii*

Bufoaria sp., *Macraetia aneura*, *Azizotia*
and *Eremophila* co-dominants the *Digitaria*
ochracea

being confined to rock crevices. *Kochia Georgii*
and other annual present particularly *Amaranthus*
Pasture mainly dry.

5520 Mt. Davis

5528 Mulga sand plain bordering

Humifera (*Triodia pungens*) covered hills

5505 over

Azylota ochracea, Genus nov. 6(?) sp. 3,
Hills sparse dominant. *Paranura* plain
Parazipum rubripes, *Collitara variegata*,
with *Eragrostis aeropoda*, *Trichnium*, *Salsola*
Tapesta sp., *Umisagutubosa*
kali, and *Helipterum florabunda*. Pasture all
dry.

5538 Open patchwork of stones and
Genus nov. 6(?) sp. 5, *Ch. torresii* *terminifera*,
grassland. Stony area bare except for
Tapesta sp., *Azylota ochracea*
occasional. *Trichnium* sp. Grassland composed
of *Pectis pectinata*, *Eragrostis aeropoda*,
Eumecopogon nigrescens and miscellaneous
annual herbs. Pasture dry.

5544 Stony orange, in sand plain.
Genus nov. 16(?) sp. 3, *Desertaria* sp. 4,
Eremophila sp., odd *Paranura* on hill. Sand
Genus nov. 56 sp. 2, *Pachyllia picta*, *Apotropis*
plain bearing *Paranura*. *Hakea laevis*, *A.*
sulphuripes *minor*, *A.* sp. 4,
Tetragonaphyll. *Digitaria brownii* and
Eragrostis setifolia together with *Eumecopogon* sp
forming main cover; all dry.

5556 Camped 5.30 pm [7.30 pm - 11.30 pm]
Warramunga s/o. P.W.H., Genus nov. 48 sp. 1,
Specimens at light except for *Warramunga*'s!
Umisagutubosa, *Apotropis sulphuripes*,
Plectrochne sp and *Paranura* with
Macrolophosia sp., *Parazipum rubripes*,
Eragrostis aeropoda, *Umisicella* sp.

3.10.60 Depart 5556

5561 Sand plain lead up to red sand
Warramunga sp. P111, *Callitriche* sp. (P),
 dune. Lower level area bearing *Plectroche*
Umsiella sp., *Ruscus* sp., *Tapesta* sp.,
 sp and *A. aurea* with miscellaneous annuals
Desertaria longirigosa, *Umsiagutthusa*
 particularly composites. *Aristida* sp common.
 Dune bearing more widely spaced *Plectroche* sp
 together with shrubby *Acacia*'s *Cassia*'s
Pituri (*Debonia hofwoodii*) and *Erythronia* (Thrip)
Erythronia sp.
 Occasional *Hakea*.

5565 Undulating red sand hill country
Warramunga sp. P111, *Ruscus* sp.
 bearing *Euc. oxymeris* (mallee form), *Thrip*,
Pituri, *Umsiagutthusa*, *Umsiella* sp.
Plectroche sp. some *Solanum* sp and
 odd *Rumiculus* plants.

5570 Stony ridge in sand plain
Moraba sp. P136, *Genus* nov. 6(?) sp. 5, *Umsi*
 menning cut onto broad belt of *A. aurea*
guttulosa, *Genus* nov. 28 sp., *Perbella picta*,
 Ridge bearing *A. aurea* and odd *A.*
Desertaria sp. 4, *D. longirigosa*, *Azelota* sp. 11,
Tetragonophylla, *Digitaria*, *Heliotropium* sp.
Genus nov. 56 sp. 2, *Azelota* *adnata*, *Apotropis*
 dominant. *Heliotropium* sp. most plant
gulfiphris, *Monstria rufescens*, *Ruforania*
 for *Monstria* sp and *Morabore*.
 sp.
 Pasture mainly dry.

Pygostictus sericans, *Rhus* sp. *tristis*,
 5575 Sandhill, bearing *Dubia*, *A. ligulata*
Umiza guttulosa, *Gelu* nov. 64 sp. 1,
 "Thrip" *Ges. fenestrolia*. *Platrachne* sp on
Tapesta sp., *Desertaria longirugosa*, *Euphorbia*
 flat leading to base of sand dune. *Miscell.*
 sp. 1, *Azalea* sp. 1.
 mixed composites scattered throughout.

5595 Sand plain bearing *Triodia basedowii*
Gelu nov. 64 sp. 1, *Rhus* sp. *tristis*,
 Scattered throughout are small *A. patens*
Desertaria longirugosa
 and some mulga regeneration.

5613 Sand plain bearing *Triodia basedowii*
Warramunga sp. Poll 2 (?), *Azalea* sp. 1,
 with scattered desert oak *Cas decasaciana*
Austracina guttulosa, *Umizella* sp., *Gelu* -
A. patens and *Hakea exostachys*. Some
 nov. 48 sp. 1
 annuals mainly *Amaranthus* sp and mixed
 composites.

Umiza guttulosa, *Gelu* nov. 64 sp. 1, *Tapesta*
 5626 *A. aneura* scrub, on stony patchwork
 sp., *Pygostictus sericans*, *Macrotoma* sp. 18,
 mosaic. Miscellaneous mixed composites
Azalea ochracea, *Onalitha manicata*, *Desertaria*
 very sparse as ground cover. *Longirugosa*,
Bufo sp.

5639 Giles [8 pm - 11.30 pm]

4.10.60 Depart Giles en route.

5642 Mulga covered granite hills
Protopis sulphuriflorus, *Baobab* sp.,
 rose, *Leodora* creek, and *Leodora* tree
Rhus sp. 8, *Heteropternis obscurula*,
Cammodulensis. Hill area with sparse

Quabilla maculata, *Conioides* sp.
over of *Plantago annua* and *Amaranthus*

sp. Pasture dry; banks of creek densely
clothed with *Themeda avenaria*.

Buforaria sp., *Conioides* sp.
5646 Similar to above except

Macrolophosia sp., *Apotrochis sulphuripennis*,
bushes denser and containing *A. Kempiana*
Urtica guttulosa

2 *Eremophila latifolia*, *Amaranthus* on
green ground cover

Cypripedium acaule, *Desmodium* sp. 4 (?)
5648 Large in the range. 1/2 of 100'

Conioides spp. (2), *Perbellia picta*, *Genus*
Genus to rock edge. *Sideroxylon* rock

Nov. 56 sp. 2, *Buforaria* sp., *Urtica* sp.,
faint but sandy rocky floor with

Paraxylum rubriflorum, *Apotrochis sulphuripennis*,
covered with a composite and small

Urtica guttulosa, *Macrotoma* sp. 4, *M.* sp. 7,

Plectrochloa subulata in places, *Pycnostichus*
seriatus

5660 *Gilia*

5672 Long station top of *Panther* con

Buforaria sp., *Monarda sulcata*,
orange. Rocky out with shrubs

Macraegleto ciliata

Gen. eximium, *Natua* sp. with

Tridax 2 sp (mountain & prairie).

Heterophyllum discolorata, *Conioides* sp.
5676. Pass. of *Alberconage*. Rocky cliff

sp., *Agelaea ciliata*, *Macraegleto ciliata* (J.D.),
faint with creek at base. *Gen. ciliata* on

Chorizanthe tenuifera, *Genus* nov. 5 (?) sp. 7,

creek edge. Pasture of mixed annuals dry
Pycnostichus seriatus

5682 Giles

[6pm - 11.30pm]

5.10.60

Depart Giles → for Warburton.

5682

5691 *Triodia* covered sand plain with
^{*Desertaria longinqua*, *Umisella* sp.}
 a belt of scattered mixed trees, comprising
Euc. gamaphylla, occas. *A. aneura*, and
Grevillea functifolia. Apart from the *Triodia*
 on scattered plants of *Sida* sp. *Solanum*
 and *Amaranthus* sp are present. Nymphs of
Hafferana or assoc. group present on the
Sida sp. (*Triodia* ^{basedown} ~~montana~~) & *Pletrachne*
frugens.]

5709 Sandy creek area running through

^{*Apotropis sulphuripes*, *Utricularia*}
Triodia sand plain. *Euc. cammaldulensis*
^{*guttulosa*, *Desertaria longinqua*, *Umisella*}
 scattered along the banks. Occas *Triodia*
 sp., *Goniatia* sp., *Tapesta* sp., *Utricularia* sp. 57 sp. 1,
^{*basedownii*} on the upper banks with
^{*Pycnostichus sericeus*}
Amaranthus sp. Patches of *Choricorus* sp
^{*ischnus* nov. 57}

Host plant for *Hafferana* & *muralis*.

^{*Parasium rubripes*, *Burtonia* sp.}

5715

Triodia basedown plain with

^{*Desertaria longinqua*, *Utricularia* sp. 14(?) sp. 1,}
 areas of *A. sporrastrophla* (raffia bark).

Caprauna sp. 3, Azelota sp. 11, A. sp. 4,
 Stone pebble mosaic pattern throughout.
 Genus nov. 48 sp. 1, Umicangutthulosa,
 Triodia dry. Many dicots growing along
 roadside in shallow table drain. Genus nov. 57
 sp. 1

5728 Open Triodia plain with faint
 suggestion of up-gradient bearing Triodia
 basedowii with Cas. decaseiana, some
 Euc. gamaphylla, Eremophila Duttonii
 and a small Acacia sp. Apart from
 Triodia little other ground available.
 (Trapping flies. successful.)

5736 Stoney rise covered with Triodia basedowii
 and Thryptomenia massoni on areas away
 from stone Cas. decaseiana dominant.
 Sandy areas bearing Aristida arenaria,
 Amaranthus and some composites. All
 very dry.

5748 Sand dunes bearing cover of
 Moraba sp. nr. P15, Callipala sp. P137,
 Triodia basedowii and Petrachne sp.
 with a widespread shrub cover consisting
 of Thryptomenia massoni, Hakea sp.,

with many miscellaneous small shrubs.

Warramunga on *Triodia* + *Plectrachne*.

Morabas on small flowering shrub.

5761 *Triodia* flat between sand dunes
Astracis g. pilosa, *Umiacella* sp.,
Triodia basedowii, *A. dictyophelia*, with
Acacia longiramea, *Acacia* sp. ||
Plectrachne sp. Small woody dicots,
Sida sp. *Dicostyle* sp. Country dry.

5767 Sand plain between dunes bearing
Triodia basedowii and *Cas. decaseiana*

Several small *Eremophilas* present.

Macrotys sp. 15 (?) (j), *Umiacella* sp.

5771 Camped. 7pm - 10.30pm

6-10-60 5771 Depart.

5780 Sand dune country bordering a
Warramunga Pt 23, *Umiacella* sp.
slope where gypsum has been exposed.

On dune country *Cas. decaseiana* dominant
on gypsum area *Euc. oleosa* (mallee)

present. Ground cover *Triodia basedowii*
mainly under *Casuarina* and *Plectrachne*
sp dominant under mallee but *Tassocks*

widely spaced. A few other desert annuals present but these are confined to roadside.

5790 Stand of *A. aneura* with an understory of *Paspalia* sp. (p.) *Genus nov. 57 sp. 1* of *Triodia basedowii*. Some *Eremophila* sp. present together with Occas other *Acacia* sp.

Dicostyla sp, *Helipterum* sp and a *Malvaceae* sp possibly *Sida* sp present as a very scattered herb cover throughout.

5809 Restricted area of iron stone pebbles covered with *Triodia Basedowii* ^{adjacent to} *Unisagittulosa*, *Genus nov. 48 sp. 1*, *Buforania* sand dune on one side and *A. aneura* scrub ^{sp. 1 *Pycnostictus sciratus*} on the other. Specimens from stone area except for *Unia guttulosa* & *Pycnostictic* sp.

5824 As above except that there were *Warramunga* sp. *P.W.*, *Unisicella* sp, *Genus nov. exocis* shrubby annuals along roadside *nov. 14(?) sp. 1*, *Strophis* sp. 1, *Buforania* sp, *Genus* on which were found *Happarana* sp. *nov. 57 sp. 1*

5845 Hollow between sand dunes bearing scattered *A. aneura* with an understory of *Plectrachne* sp and *Thryptomena* sp. On crest of dunes occas *Grevillea* sp.

(white flowers) present. Scarabs from the flowers.

5854 Turn off to Carnegie 282. (right)

↓ straight through to Warburton 40m.

5858 *Bufoviranga* sp. 2, *Austrocris guttulosa*,
Spuniflex Tricodia basedowii and
Strepis sp. 1, *Uromia guttulosa*, *Uromia* nov.
worn stone pebbles in a mosaic. Only
^{14(?)} sp. 1, *Pycnostictus seriatus*.
Tumblers odd *A. anheura*.

5868 *Bufoviranga* sp., *Peakesia* sp. 3,
Open *A. anheura* woodland with
Phaulacridium sp. 11 (near?), *Uromia* nov. 6(?) sp. 5,
mixed grass and decot. cover consisting of
Pycnostictus seriatus, *Uromia* sp., *Uromia*
Bassia sp. *Salsola kali*, *Amaranthus* 2 sp.
guttulosa, *Strepis* sp. 1, *Austrocris guttulosa*.
Helipterum flavabunda all dry.

5885 *A. anheura* stand with *A. interioris*
Pycnostictus seriatus, *Bufoviranga* sp.,
with an understory of *Tricodia* sp. Several
Peakesia sp. 3, *Strepis* sp. 1, *Desferria*
small scraggy *Acacia* shrubs. *Parakeelya*
longirugosa, *Rhyoloba* sp. 11, *Uromia* nov. 6(?) sp. 5,
scattered throughout. *Amaranthus* sp.
Uromia guttulosa.
and mixed decots along roadside.

5895 Warburton Mission
Chloroceryle tenuifera, *Rhipidura validirostris*,

5903 Camped. 8pm - 12am. at light
Coryphopterus sp., *Macrotaphia* sp.

= 1 mile N of Warburton. 9.10.60

5854 = 5947 turn off to Carnegie

5952 Open *A. aneura* slope with *Erem.*
Genus nov. 44 (?) sp. 1, Parazylum rubripes,
latrobia. Scattered *T. basedowii* with patches
Bufoaria sp.
of *Amaranthus*. Small occas. plants of
Amstida arenaria. Fine ironstone pebble
patches as top surface throughout. Conditions
dry.

5969 Timbered gully between two rises.
Genus nov. 57 sp. 1, Genus nov. 44 (?) sp. 1 (f.)
Gully area with *A. aneura*, and *A. ramulosa*
Chortocetes terminifera, Parazylum rubripes,
Amaranthus common. Timber belt narrow
Genus nov. 48 sp. 1, Utrisa guttulosa,
Triodia basedowii on pebbly slopes
Austracis guttulosa, Bufoaria sp.
adjoining. Pebbly area with scattered
A. patens. *Chorchorus sp.* sheltering.
Happarana sp.

5977 Weathered low range bearing
Miercalasp. 3, Utrisa guttulosa,
scattered *A. aneura*. [*Eriachne sp.*] in
Chortocetes terminifera, Bufoaria spp. (2)
small isolated patches. *Amaranthus sp.*
common at base. Conditions extremely dry.

6004 *A. vesicaria* *A. kempiana* and
Chortocetes terminifera
Melaleuca sp. on limestone Travertine
sandy soil. Some *Salsola kali* and

Bassia sp. Extremely dry.

6017 *Triodia* sp on a flat between
Amisicella sp.
sand dunes bearing *A. aneura*, *Erem. Duttonii*
and areas of *Thryptomena* sp. Inter-
tussock space bare. Conditions dry.

6032 Gully area between gentle slopes.
Acacia sp. 1 (f), *Beauveria*
A. aneura *Eremophila sturtii* and *Acacia*
longitugosa, *A. aneura* *guttulosa*
ramulosa. *Triodia basedowii* and
Plectrachne sp as mixed ground cover.

Amaranthus sp & *Dicostyle* sp as occas.
mainly along road edge.

6041 Rocky weathered lateritic range
Bufoaria sp., *Strophis* sp. 1, *Macraetola*
bearing *A. aneura*. Very stoney
Centropogon (f), *Chorizanthe*, *Stemodia*
Patches of *Eriachne* sp and *Cineaspor*
very sparse. *Trichinum exaltatum*
scattered throughout.

6056 Camped. *Bufoaria* sp. [8-11-15 pm]

8.10.60 Departed 7.45 am 6056

6063 *Plectrachne* sp open plain with

^{Genus nov. 57 sp. 1, Desertaria longinosa,}
Euc. Terminalis, and *Eremoph. sp.*

^{Umisicella sp.}
Clocherus sp. along roadside. Heat for Happerana
 Some *Dicoctyla sp.* and Wild Vetch also
 roadside plants. *Warramunga* nymphs. 2nd
 instar?

6071 Weathered lateritic range, covered
^{*Warramunga sp. PW 24 (j), Macraetobola*}
 with *Aeneura*. *A. ramulosa* *Eremoph. & Cassia*
^{*ceronia (j), Genus nov. 12 (?) sp. (j), Buforania*}
eremophila at base with *Triodia pungens*
^{*sp., Rhus sp. tristis, Azelota sp. (j)*}
 scattered throughout the timbered lower
 areas. On slope itself, *Eriachne sp.* and
Trichium exaltatum as sparse cover.

Warramungas from *Triodia*.

6085 Slope of undulating hill bearing
^{*Genus nov. 14 (?) sp. 1, Megerstona sp. 15*}
A. aeneura, *A. interioris*, and *Eremophila sp.*
Triodia basedowii as dominant ground
 cover. Miscellaneous dicots along roadside
 but widely spaced.

6096 *A. aeneura* and *Triodia sp.* dominant
^{*Rhus sp. tristis, Umisicella guttulosa,*}
 with occas. *Euc. coolibah*, *Triodia* very
^{*Apotrope sulphurea, Pycnostictus*}
 dry. Flowering ephemerals numerous

seriatus, *Troglanthia australis*, *Austrotrachia*
mainly *Goodenia* sp. indicating recent rains
guttulosa, *Chorizandra terminifera*, *Heteropternis*
Aristida arenaria dominant under the thicker
obscurula, *Ptilopus tamariscinus*
A. aneura stands.

6096. Beadell Blaze. 130m. Carnegie

6107 *A. aneura* flat with odd *Euc. terminalis*
Austrotrachia guttulosa, *Chorizandra* sp.,
trees and some *A. ramulosa*. *Triodia* sp.
Macrotona sp. 15, *Almisa guttulosa*, *Azclota*
as an understory (Very dry) *Amaranthus* sp.
sp. 10 (?) (?), *Chorizandra* sp.
dry along road verge. Fine ironstone gravel
as a mosaic between *Triodia* plants.

6119 Edge of Latent low range.

Quillettia maculata
A. aneura in clumps on open stone patches.
Bassia sp., *Kochia* and odd scattered
bushes of *A. verucaria*. Very dry.

6128 *Euc. coolabah*, *Chenopodium curvicaule*

Chorizandra terminifera, *Almisa*
claypan area with sand rises around
guttulosa.

its margin. *A. aneura* present on sand.

Microcellaneous annuals in flower present on
areas where water had receded. *Amaranthus*
present on sand.

6140 Latent range, *A. aneura* scattered

thinly over its sides & top. A scarp front
 with *Perforaria* sp. and *A. vesicaria* on
 the scree under scarp front. Very dry.

6153 *A. aneura* scrub, with *Triodia* sp.
Urtica guttulosa, *Psychotria* sp. 44
 as ground cover. *Emmophila gilesii*
Leaves nov. 144(?) sp. *Urtica* sp.
 as shrub layer. Very dry.

6173 Camped. 8.00pm - 11.00pm

9.10.60. Departed 6173

6175 *A. aneura* Scrub with *Triodia* sp.
Perforaria sp., *Psychotria* sp.,
 as dominant ground cover. *Emmophila*
Gnaphalium maculatum,
gilesii scattered throughout. Miscellaneous
 dicots on roadside verge. Much greener.
 A number of young nymphs present.

6185 Flat between sand dunes bearing
Leaves nov. 144(?) sp. 1
 odd *A. aneura*. *Grevillea* sp (2) with
Plectrachne sp as ground cover. Sand
 dunes stabilise with *Grevillea acrostachne*
Euc. terminalis and *Plectrachne*. Some
 ironstone gravel areas between *Plectrachne*

on the flat. Grasshoppers from "flat" area only.

6218 Lower slope of low lateritic
Amisaguthulosa, *Burfordia* sp.,
 orange with effluent areas of stone
Chorizandra tenuifera, *Macroglossa* sp.,
 and water course from the hills
Agrostis sulphurea, *Poa* sp. (S.),
 Stone area with scattered *A. aneura* and
Quabba maculata, *Pycnostichus* sp.
A. tetragonaphylla. Watercourse *A. interioris*,
Eremophila sp. *Enchyleana* sp. *Bassia*
 a *Kochia* as good ground cover

6224 Carnegie H.S.

6233 Giber plain with scattered
Quabba maculata
 Timber. *A. interioris*, *A. aneura*, *Eremph.*

frelingii and occas *A. tetragonaphylla*
Amaranthus sp, *Bassia* sp. *Kochia* *Triptera*.
 as scattered individual plants.

6247 *A. aneura* scrub with *A. ramulosa*
Warrenia sp. RW18 (C), *Macrotona*
Cassia sp and *Eremophila* *Gilesii*. Scattered
 sp. 14, *Ruscophila* *tristis*, *Pycnostichus*
Triodia sp with *Amaranthus* and
seriatus, *Helota* sp. 4, *Amisella* sp.,
 occas *Eragrostis* makes up a sparse
Austraria *guthulosa*, *Macrotona* sp. 10 (S)
 ground cover.

6258 Open gibber plain. with scattered
Acacia sp. *Boerhaavia* sp. *Chortolacca* *terrestris* fl. a.
 Ground cover *Bassias*
Replissoid sp.
Atriplex halocarpa and *Trichocereus*
exultatum. Cover dry except for
Bassias.

6267 Creek or River. (Waterhole)

6271 Stoney gibber slopes leading down
Macropod *ocellata* (skel.), *Eucydon*
 to shallow gully. Gully with thick
 sp. (?) (skel.), *Diapra* sp. 3, *Qualit* *maulata*,
A. aneuva, *Cassias* sp. *A. ramulosa*
Heteropterus, *obocurella*.
 Stoney area. *A. aneuva*.

6278 River or Creek

6279 " " " " " "

6281 Lateritic hill bearing *Cremophila* sp.
Qualit *maulata*, *Pycnos* *richi* *seriatis*,
Acacia sp as scattered specimens and stunted
Umisilla sp. *Boerhaavia* spp. (2-3), *Austraria*
Bassias *Kochia* and *Atriplex halocarpa* as
guttulsa
 a dry cover.

6289 Mosaic pattern of scald and semi-
Chortolacca *terrestris*, *Caperata* sp. 2
 self-mulching soil. Scald open with ironstone
 gravel fine. Food-shelter habitat of.

Eragrostis sedifolia. *A. aneura* and odd
Eremophila sp as open woodland formation
Ch. terminifera numerous both adults
 and nymphs; cover obry.

[Newell's Photo Film V8. 11-12.]

6295 Camped [8pm - 10pm]

10.10.60. 6295 Departed.

6301 Creek. *A. aneura*, *Euc. cammald.*

(*A. aneura* *raffia* barked) with occ *A. tetragonophylla*
Hebe rostrata, *Pyrostictus*
 and *A. ramulosa*. Banks lined with mixed
serotus, *Splungonotus erythrophorus*
 grasses of which *Eragrostis setifolia* and *Arctida*
avenaria are co-dominant. Some clumps of

Themida *avenacea* together with scattered
 dicot herbaceous annual *Malva* sp etc
 make up the vegetative structure.

6305 Wonga Wal H. S.

6313 Turn off Wundlar H. S.

6324 *Austracris guttulosa*, *Baforania* sp.
A. aneura scrub. regeneration, with
Azelota sp. *ochracea*
Erem. Gilesii. Patchwork of pebbly areas

cover -

throughout. Ground, *Danthonia bipitata* and *Eragrostis setifolia*. all dry. Gale force winds

Rhopis viridula, *Omalotheca maritima*, *Azclota* sp. 4,
6343. Sandy country bordering a small
salt pan. *Moraba* sp. P32, *Callitriche* sp. (f), *Urtica*
A. canescens, *Dioscorea* sp.
guttulosa, *Pycnostictus striatus*, *Desertaria longi-*
Grevi. hugelii. with *Triodia basedowii*.
rigosa, *Urticella* sp., *Gum* nov. 48 sp. 1, *Paspalia* sp.
dry.

Azclota sp. 4, *Chortocetes terminifera*, *Urticella* sp.,
6362 Mixed community of *Acanneura* on
Warrawunga sp. P24 (f), *Moraba*
sand with *Eragrostis aeropoda* *Triodia* sp
sp. P138, *Pycnostictus striatus*
on sand and sapphire hollows. Conditions dry.

6379 *A. canescens* woodland. Trees well
Urtica guttulosa, *Strophis* sp. 2, *Microcola* sp. 8,
spaced with *Exm. Gilesii* *Amaranthus*
Pycnostictus striatus, *Azclota* sp. 4, *Desertaria*
sp and *Trichinium obovatum* ground
longingosa, *Chortocetes terminifera*, *Cyperus*
cover of *Arctida arenaria* and *Danthonia*
sp. 2
bipitata. Ch. term. nymphs very numerous

in patches density up to 2/sqyd. *Pycnostictus*
nymphs also numerous. Cover dry.

6391 Woodland formation of *A. canescens* and
Strophis sp. 2, *Macrolobelia* sp. 4
Plectrachne sp with odd *A. victorica*
and *Euc* sp (mallee, large fruit). Inter-
tussock space occupied by scattered plants

of *Danthonia bipitata*, some *Bassia* sp and *Kochia triptera*. Vegetation dry except for *Kochia*.

6406 Mixed shrub woodland Eve classa, *Bushraeria guttulosa*, *Maaralopholia* sp., *Kochia* sp. *A. aneura* with small *Eremophila* *capitata* sp. 2, *Chorizandra tenuifera*, *Pycnostictus* (purple flowered) as occasional Composites *seriatus*, *Froggattina australis*, *Leuca* no 5.6(?) and *Eragrostis*, *Anstida Arenaria* dominant sp. 4 ground cover, all dry. *Ch. tenuifera* a *Pycnostictus* sp. numerous

6428 *Tridax basedowii* on sand plain *Platanus nigripes*, *Pycnostictus seriatus*, *Grev. junctifolia* *A. patens* and scattered *Sphingonotus erythopterus*, *Amisella* sp. *A. aneura* with native poplar as occas.

6447 Wiluna [8.00pm - 11pm]

11.10.60*

6448 Departed Wiluna

6470 *A. aneura* scrub with *Grevillea* sp *Strophia* sp. 2, *Gonolobus* sp., *Chorizandra* and odd *Eremophila*. Ground cover sparse *tenuifera*, *Apocynum* *affata*, *Pycnostictus* mostly composites all dry. *Ch. tenuifera* nymphs numerous 1/sgd. for a large area.

6483 Crest of weathered lateritic range
with *Qualitella maculata*, *Senecio* sp. 631 sp.,
A. aneura, *Eremophila* Gilesii. Some
Stropis sp. 2, *Bufo* sp.
Eragrostis aenopoda but otherwise ground
bare and stoney. Very dry.

6496 Low lateritic rise with clumps
of *Macrolobia acellata*, *Qualitella maculata*,
A. aneura and scattered *Eremophila* sp.
Bufo sp.
Odd *At. vesicaria*, *Bassia*'s and *Kochia*
triplex forming ground cover in hollows
and depressions. Very dry.

6504 Turn off to Mt. Keith H.S. 1 mi.
Euphorbia sp. 2, *Senecio* sp. 6(?) sp. 5,

6508 Granite Range, with *Acacia* sp.
Almisa guttulosa, *Capriala* sp. 3, *Bufo* sp.
A. aneura. Great boulders piled up.
Small creek through area green with
Apogon sp. 1, *Conyphidius* sp., *Austrocyathus pusilla* (?),
Apogon sp. 1, *Chorizanthe tenuifera*,
Cymbopogon sp. *Malvaceae* sp.
Paspalum sp., *Hypochaeris* sp., *Qualitella*
Ch. tenuifera nymphs numerous.

6521 Low stoney rise lateritic
Bufo sp., *Chorizanthe tenuifera*.
Covered with low shrubby trees of *A.*
aneura *A. tetragonophylla* odd *Grevillea*
Conyphidius sp.
sp. ground cover *Enneapogon* sp.
Good cover but dry. *Ch. tenuifera*

nymphs numerous, almost swarm or
land density 3-5th instars. [8-10-30m]

12.10.60 Depart. 6521.

6528 *Aeneura* woodland with
Capitata sp. (J.), *Umsiella* sp., *Angela* sp.
occ *Euc. burracoppoensis* and *Tremophila*
macula. Odd *Triodia* Tussocks otherwise
scattered pasture of *Arctida* sp, *Danthonia*
bipitata and *Eragrostis* *aeropoda*. Pasture
dry. *A. crespida*^{carpa} as occasional,
similar to broad-leaf form of melga.

6532 Abandoned mine & salt lakes

6547.

Aeneura woodland with scattered *Tremophila*
Capitata sp. 3, *Umsiella* sp. 2, *Stropia* sp. 2,
maculata *Euc. sp* (*burracoppoensis*)
Pseudotetraneura *senilis*, *Chrysomelids* *terrestris*,
A. tetragonaphylla. Ground low but
Qualitella *maculata*, *Angitia* *horrida* *pusilla* (?),
thick *Eragrostis* sp (fine sp) with *Panathalia*
A. arida and *Amaranthus*. Cover dry. Ch. forms
numerous 3rd-5th. Young morelines
1st instars on *Eragrostis* sp.

6558 Agnew.

6559 Stoney range, lateritic stonewell
~~Capayala~~ ^{Capayala} sp. 2, ~~Hydrocotyle~~ ^{Oderma}, ~~Macrolophosia~~
 weathered. *A. aneura*, *Cassia cremophila*
sp., *Bufovia* sp., *Rpotropis vittata*, *Qualitla*
 and *Cassia* sp. well spaced. Ground cover
maculata, *Umisia guttulosa*, *Strobis* sp. 2.
Enneapogon sp., *Trichinum exultation* and
 some composites all in full head, cover
 greenish.

6569 Creek Xing.

6572 *A. aneura* scrub with odd *A. tetragon-*
macrocalia sp. 3 (skel.), *Strobis* sp. 2, *Umisia*
aphylla, with odd *Hakea* sp. Ground cover
guttulosa, *Umisia* nov. sp. (3), *Capayala* sp. 2,
 in mosaic pattern of bare ground, annual
Rpotropis vittata
 composite cover and areas of *Brachystis acropoda*

Although not completely dry is rapidly
 drying off. A few 1st instar *Morabinae*
Chort. terminifera present as nymphs,
 very scattered population but numerous.

6577 *A. aneura* scrub, lightly timbered
Bufovia sp., *Cassia* sp.,
 on edge of creek. Ground sparse *Prostida*
Umisia guttulosa, *Rpotropis vittata*,
arenaria, *Enneapogon* sp. Some *Cremophila*
Qualitla maculata, *Capayala* sp. 2, *Strobis* sp. 2,
maculata. *Umisia* adults in sub-

swarming numbers. Numbers so numerous to make collecting difficult.

6580 Creek Xing.

6592 *A. aneura* scrub with scattered *Macrobolia* sp. 4, *Scirpus* no. 62 sp. 1, trees of *A. cespeditata* ^{capa} and *Cassia* ^{ochracea} *Shrop* sp. 2, *Apotropis* *willata*, *Psychotria* *serenophila*. Mixed ground cover of *Caperrala* sp. 2, *Qualitella* *maculata* composites *Trichnum* and *Aristida*.
haying off. ^{Macrobolia} on *A. cespeditata* ^{capa}

6605 Creek area of several channels.

with *Macrobolia* sp., *Chortocetes* *terminifera*, *Umisia* *guttulosa*, *Buforania* sp., channel. *A. aneura*, *Gnathia* sp. and *Austroicetes* *pucilla*, *Ephingonotus* *erythropterus*, *A. tetragonaphylla* together with *A. burkettii*. Pasture dense, mixed composites *Qualitella* *maculata*, *Goniocoma* sp. 9. *Swanoria* sp. *Themida* *australis*, *Trichnum* *exaltatum* and *obovatum*.

Area green. Edge of creek *Ch. terminifera* both adults & nymphs very numerous.

6618 Latentio rang. *A. burkettii* and *Buforania* sp., *Shrop* sp. 2, *Caperrala* *A. aneura* as a scattered stand. sp. 2, *Qualitella* *maculata*, *Austroicetes* *Amaranthus* sp (terminal), *Kochia* *Friptera* *pucilla* (?)

dominant low shrubby stand with a thin cover of *Enneapogon* and *Trichenum exultatum*. Cover mainly thin & dry.

Ch. term. & *Aust.* numerous.

6625 River Xing.

6629 Stoney area at base of range with *Macrolobalia* sp. 11, *Genus nov.* *carpa* 82 sp. 1, *Bufo rania* sp., *Stropis* sp. 2, *Rochia triptera*, *Amaranthus* sp. as shrub *Caperrala* sp. 12.

layer with *Danthonia bipitata*, *Bassia* sp., some *Stipa* sp. and mixed annuals.

Macrolobalia on *A. craspedicarpa*.

Ch. term. & *Aust.* numerous as nymphs.

6640 *Leonora* [7pm - 2pm] *Bufo rania* sp., *Genus nov.* 55 sp. 1, *Coryphaster* sp., *Qualitta n. aculeata*, *Genus nov.* 57 sp. 1, *Austroicetes pusilla* (?), *Genus nov.* 58 sp.

13. 10. 60 Depart 6640

6656 *A. aneura* scrub both

Stropis sp. 2, *Macrolobalia* sp. 11, broad & narrow leaf forms. *A. tetragonophylla* as occas. *Chorboicetes hemisphaerica*, *Genus nov.* 61 sp. 14. Scattered *Amaranthus* sp.

Ground cover fine leaf *Eragrostis* sp and mixed composites. All dry.

Macroplopholia sp., *Bufoaria* sp.
and *Kochias*, *Ch. tenuifera*

numerous 3rd-5th

6717 Laverton. & return 6717-6721

6729 Camped. 8pm - 12:30pm
Coryphistes sp.

14.10.60 Depart 6728 in Cosmo.

6736 *A. aneura* scrub with *A. tetragonophylla*
Capemala sp. 2 (f), *Qualitla maculata* (f)
some *A. crepidicarpa* with *Eremophila* sp.

Ground low dry compound mixed annuals.

6741 *Tridax* based on sand plain
nov. 35 sp. 1, *Senecio* nov. 35 sp. 1, *Qualitla*
with *Euc. pyriformis* and *A. miniophylla*,
maculata, *Ciphus* sp. 2, *Ruscophila* *tristis*,
with *Thryptomenia* sp. 1st meter
Azylota sp. 1, *A.* sp. 4, *A.* sp. 11

Moralineson *Thryptomenia* sp.

6752 change *Capemala* sp. 2,
Vegetation line from *Tridax*

Coryphistes (f?) sp. (f), *Umbra*
based on with *A. aneura*, *A. liriophylla*
guttulosa, *Desertaria longirugosa*, *Senecio*
with *Tuecum* sp and *Eremophila* sp (like

nov. 31 sp., *Senecio* nov. 69 sp. 2, *Mimela* sp.
maculata) latter two species as a
8, *Strophis*, sp. 1, *Senecio* nov. 40 sp. 1, *Ruscophila*
dense shrub layer. Some composites
tristis, *Azylota* sp. 4, *Senecio* nov. 48 sp. 1
and *Danthonia bipartata*.

6760 Mixed community of *A. aneura*

Genus nov. 64 sp. 1, Genus nov. 57 sp. 1,
A. crespedicarpa, Euc. pyriformis and
Desertaria longicaulis, Rhus sp. trichis,
Eucsp (bloodwood?) with odd A. murrayana
Genus nov. 48 sp. 1, Paspalia sp. 2, Gonocera
and Pituri. Understory of Triodia basedowii
sp. with odd Chechemus sp.

6777 Cosmo-Newby Mission.

6795, Sand plain adjacent to limestone
Genus nov. 35 sp. 1, Tapeata sp, Gonocera
Travertine ridge. Sand area with
sp. (2), Rhus sp. trichis, Urtica guttulosa,
scattered A. aurea, H. laurina and
Genus nov. 48 sp. 1, Genus nov. 57 sp. 1, Anglota
Bassia eremophila with a ground cover
sp. 4, Lemniscella sp.
of Triodia basedowii. Travertine ridge
with Euc. concinna, Cassia eremophila
with Triodia longiceps. Odd plants of
Chorcherus sp (Happarana sp). Dry.

6810 *A. aurea* scrub with an
Desertaria longicaulis, Macrolophosia sp,
understory of Kochia aphylla Eremophila
Urtica guttulosa, Stropis sp. 1, Anglota ochracea
gilesii, Amaranthus sp (perennial) and
Acacia sp. 1
occas. At. viscaria bushes. Ground
cover of Aristida arenaria, Eragrostis
aeropoda with Bassia bicornis.
Grass cover very dry.

Nº 143

Rhusopia validicornis, Genus nov. 57 sp. 1.

6822 Stopped repaired trailer springs.

Onalissa maculata, *Goniaca* sp., *Rhusopia*
camped. (at light). [7-11 pm].
Tristis, Genus nov. 48 sp. 1.

15.18.60

6822 Depart. (flats trapped)

6837 Mixed community of *A. aneura* Euc.

Goniaca sp., Genus nov. 66 sp. 1, *Rhusopia*

cleosa, *A. crespedicarpa*, with *Triodia*

tristis, *Pycnostichus scriatus*, *Unguicula* sp.

baredonii as a ground cover. Very

dry. Occas *Eremophila* sp.

6855 Low lateritic range in dense

Genus nov. 66 sp. 1, *Rhusopia tristis*.

Mulga country, with stunted *A. aneura*

Bufoaria sp., *Chortocarpus hemisphaerica*,
on the rocky knolls. *Eremophila latrobia*

Psyclota octocarpa, *Desertaria longicaulis*,
Protranthia baxteri, and *Amaranthus* (herm)

Euphorbia quadrilobus

being the dominant shrub layer. Grass

cover confined to *Aristida arenaria* and

thinly spaced (dry).

6871 Sand dune with scattered

Callitula sp. (f.), *Unguicula guttulosa*,

A. aneura *Thyptermania* sp and *Triodia* sp

Genus nov. 57 sp. 1, *Pycnostichus scriatus*,

Dicostylis sp *Chocherus* sp scattered

Desertaria longicaulis

throughout. *Moralenis* on *Chocherus*.

Warramunga nymphs on *Tridax*.

6882 Limestone-sand Traverine bearing

Warramunga sp. Pl. 11, *Rhopile*
Euc. oleosa, *A. aneura*, *Cassia* sp
ultrata, *Chorizanthe tenuifera*, *Rhynchospora*
with occas. *Eremophila*. *Tridax basedowii*
seriale, *Russelia* *bratis*, *Desertaria*
and *Petrachne* (*Warramunga*) with
longirugosa

Amaranthus, and *Danthonia* and *Eragrostis*
aeropoda. Dry.

6899 Sand-Limestone Traverine

Genus nos. 48 sp. 1, *Microcala* sp. 8,
bearing *A. aneura*, *Cas. cristata*, *A. ligulata*
macrophylla sp. 16
and *Eremophila* sp. On sand areas

Petrachne and *Eragrostis dielsii*,
Aristida arenaria. On limestone area

Kochia - *Bassia* sp with *Amaranthus*
obovatus (perm). Dry.

6911 Area of *Tridax basedowii* on

Warramunga sp. (f), *Desertaria*

fine lateritic gravelly sand. Odd

longirugosa, *Parasium rubripes*, *Russelia*

mixture of *A. aneura* and *Euc. pyriformis*

tristis, *Euc. oleosa* *guttulosa*, *Arctopus* *halimifolius*,

and *burrowcopensis*. *Coniaca* sp. *Genus*

nos. 14 (2) sp. 1.

6925 Area of *Tridax* between sand

dunes. *T. basedowii* and *Petrachne*

Acrotrix sp. *thulosa*, *Genus* nov. 48 sp. 1,
 both present with scattered *A. arava*
Unicella sp. *Genus* nov. 57 sp. 1, *Genus* nov.
Grevillea punctifolia, *Eremophila* sp.
 14(?) sp. 1, *Chorizanthe tenuifera*, *Rhus* sp.
 and *Thryptomenia* sp. *Chorizanthe* sp.,
 and *Dicostyle* sp. present along roadside
 and are in full flower.

6932 = 117. PB Rockhole

6937 *Acanthaceae* scrub with an
Genus nov. 48 sp. 1, *Rhus* sp. *tristis*,
 understory of *Plectranthus* sp., this confined
 to isolated areas. Remainder of ground
 with a sparse cover of mixed annuals (dry)
Coryphantha sp., *Marsipposylla ocellata*.

6949 Camped at light [8-11 pm].

16.10.60 Depart. 6949.

6962 *Triodia* flat between sand dunes
Conium spp. (2), *Desertaria longirigosa*
 with a thin *Tridax* stand of *Euc.*

Cunocypripedium, *Grevillea punctifolia*

A. ligulata and *Erem.* sp. Both *T.*

baredownii and *Plectranthus* sp make up
 the ground cover.

6973 Low lateritic range covered

Cupressula sp. 3, Buforania sp., Urnisa
with stunted *A. aneura* and *Eremophila*
guttulosa, *Apotroxis sulphurea*, *Qualeya*
latrolii. ground cover sparse, confined to
maculata, *Respalia* sp. 8, *Azelota* sp. 4,
scattered tussocks of *Plectrachne* sp., *Amatida*
Desertaria longirugosa, *Macrolophosia* sp. (f.)
arenaria and a composite. Conditions dry.

6986 *A. aneura* scrub on edge of
Apotroxis vittata, *Urnisa* sp.,
gravelly *Triodia* area. *Triodia* (n. sp.)
Desertaria longirugosa, *Pycnostictus serotinus*,
and *Plectrachne* sp. dominant ground cover
Chorizandra tenuifolia, *Urnisa* sp.,
with *Parakeelya* sp. *Eriachne* sp., *Chorizandra*
australis sp. *Triodia* sp.
sp. scattered through inter-*Triodia* tussock
sp. Annuals haying off; not quite dry.

6992 Weathered laterite range covered
Cupressula sp. 3, *Desertaria* sp. 4,
with stunted *A. aneura*. Apart from
Qualeya maculata, *Pycnostictus serotinus*, *Azelota*
scattered *Amaranthus* sp. & odd *Plectrachne*
sp. 4, *Capriola* sp. 2, *Buforania* sp., *Conyphites* sp.
tussocks are bare.

7012 Stony range as above more
Cupressula sp. 3, *Desertaria* sp. 4, *D.* sp. 2, *Apotroxis*
guttulosa, *Buforania* sp., *Respalia* sp. 8, *Urnisa*
Amaranthus with stunted *A. tetragonophylla*
guttulosa, *Chorizandra tenuifolia*, *Capriola* sp. 3
as well as *A. aneura*.

7034 *Triodia* sand plain bearing
Callitula sp. (f.), *Parazelum rubrum*,
Euc. gamaphylla & *burrowscoppenensis*
Leonard sp., *Respalia* sp. 8,
a *A. interioris*. *Triodia* *baseowii* (dry)

7057 Ironstone gravelly tableland
Goniada sp., *Umbellula* sp., *Gnaphalium* nov.
 bearing very scattered *A. vitoriosa*, *A. aneura*
 4(?) sp. 1
 and *Euc. terminalis*. Only ground cover
Triodia basedowii. Very dry.

7076 Warburton Mission [9-11-30]
Coryphantha sp.

7078 Camped. (run into Mission at night)

17.10.60

7081 Depart 7082 Warburton Mission.

7089 Rocky small range with
Macrolophia acclata (Kel.),
A. aneura. on crest. *Amaranthus* sp. (hr)
Macrolophia sp., *Bufoaria* sp., *Lycium* sp.
 on lower slopes with *Aristida aenaria*
seriata, *Qualefta maculata*, *Desertaria* sp.
 on the whole area (Very dry) Gale force
 4, *Peckia* sp. 3, *Gnaphalium* sp. 6(?) sp. 15,
 winds prevailing.

7104 *Aeneura* stand very thickly scattered.
Moraba sp. (? *curv* sp.) (j.), *Microcala* sp. 8,
 with an understory of *Kochia triptera* with
Bufoaria sp., *Macrolophia* sp., *Austrospiro*
 patches of *Eragrostis aerophoda*. Odd clumps
Guthriea, *Desertaria longirigosa*,
 of *Eriachne* sp., *Aristida aenaria*, and
Chortocarpus terminalis.
 scattered over the whole area several
 composite sp. Annual herbage all dry.

Euphorbia sp., *Caprianea* sp. 3, *Ulmia* sp.

7116 Range, granite stone with scattered
guttulosa, *Desertaria longirugosa*, *Stropis*
A. kempiana 2 mls left of road, Odd
sp. 1, *Desertaria* sp. 1417, *Stropis sulphurea*
A. aneura at base. *Eriachne* as grass cover
pennis, *Austroa. guttulosa*, *Genus* nov. 57
but dry. sp. 1, *Genus* nov. 6(?) sp. 5

7126 Spinifex on small knoll, limestone,
Pycnostichus seratus, *Umisicella* sp.,
in floor between ranges. *A. aneura* and
Desertaria longirugosa, *Stropis* sp. 1, *Macrotona*
A. victoriosa as odd trees present.
sp. 14, M. sp. 11, *Goniolobos* sp. 9, *Parasium*
Land plain bearing mulga at base
rubripes, *Troggattura aculeata*, *Azobita*
with thick *Amaranthus allopectoroides* (annual)
ochracea, *Genus* nov. 12(?) sp. 2
rather green indicating recent rain.

7138 Turn off to Mt. Davies

7139 *A. aneura* scrub (weeping form) overlying
Genus nov. 64 sp. 1, *Paspalia* sp. 8, *Macrotona*
Tridax, *landweir*. (*Warrawonga nymphs*)
sp. 18, *Parasium* *rubripes*, *Genus* nov. 118
Very occas. *Amaranthus allopectoroides*. (dry)
sp. 1, *Umisicella* sp., *Ulmia guttulosa*.

7164 Camped [8 - 2pm] at light.
Acacia *validicornis*

18.10.60 7164 Departed.

7168 *Austroa. guttulosa*, *Azobita* sp. 11,
Desertaria longirugosa, *Ulmia guttulosa*,
ridge on edge of *Tridax* sand plain
Umisicella sp., *Genus* nov. 14(?) sp. 1 (j.)
Gale force winds.

W. H. ✓
 7172 ~~Bibbing Hole~~? Huge granite outcrop
~~Azobolus ochracea, Deschampsia~~
 bearing scattered *A. kempiana* with
~~longirugosa, Macrotona sp. 12,~~
 several large thickets of Native fig [*Ficus* sp.]
~~Supracaulis corallipes.~~
 Much rock face exposed with large boulders
Enneapogon sp growing in crevices and
 small flat areas between stones. (drying off)

7183 Granite Gneiss range, very rocky
~~Macrotona sp. 29, Lycopodium mod. 6~~
 with scattered herbaceous plants on
^{sp. 5}
 the lower slopes, comprising *Triodia*
 sp. *Amaranthus* sp (jun.) and
Enneapogon sp. Very dry.

7187 Turn^{ed} off into Cavenaugh Rge.

7195 Turned back.

7198 Collected on oranges. Rocky
~~Macrotona sp. 29, Lycopodium mod. 6~~
 outcrops with *Euc. oldfieldii*, *Euc. gamaph.*
~~Macrotona sp. 29, Tapscottia sp., Azobolus~~
 as stunted mallee form, with *Triodia*
~~ochracea, Rhus plumbicarpa~~
mutabilis. *Ch. terminifera* sighted.

7211 *Triodia pungens* sand plain
~~Azobolus ochracea, A. sp. 11, Lycopodium mod. 48 sp. 1,~~
 bearing odd *A. exterioris*, *A. ligulata*,
~~Anastrepha guttulosa, Lycopodium mod. 12(?) sp. 2,~~
 and *Bakea laevis*. [quite green]
~~Macrotona sp. 14, Chrostola terminifera, M. sp. 11~~

Macrolophosia sp., *Bufo* sp., *Desertiana*
longirugosa, *Limosa guttulosa*, *Macrotona*
 sp. 29, *Chortocites tenuifera*, *Azelota*
ochracea, *Gerres* nov. 6(?) sp. 5, *Laprea* sp.

Nº 50

7218 Blackstone range where road passes
 through from south to north.

Chortocites tenuifera, *Peripolia trishia*,
Tridaca covered granite gneiss rocks.
Anobrynia guttulosa, *Lonicula* spp. (2)
 with occas *Euc. oldfieldii*.

7230 ✓ Blackstone range as above.

7234 Blackstone Camp.

7256 Main Gyles Rd.

7283 SA-WA. border.

7291 Camp. 1 mile NW of Mt Davies

run into ~~camp~~ ^{Mt Davies} back to camp.

7291 = 7296

[8pm - 11pm]

19.10.60 Depart 7296

7299. Mt. Davies

7303 Stoney hill with Tomkinson Ranges

Bufo sp., *Colletes variegata*, *Peripolia*
 covered sparsely with *A. aneura*. Mixed
 sp. 8, *Chortocites tenuifera*, *Desertiana*
 grass and herb cover mainly *Danthoria*
 sp. 4, *Azelota ochracea*, *Gerres* nov. 6(?) sp. 3,
Lepidota Enneapogon sp. Very dry.
Macraspiza cingula

Flat at base of hill with *A. aneura* and
 further down slight gradient *Tridaca*
 sp on stoney kerbstone.

7322. Valley floor between two sand
dunes with ^{Goniacia sp., Ruscuphia hirsuta,} *Euc. gamophylla*, *A. anura*
scattered bushes of *Thriftimaria* sp.
and both *Triodia basedowii* and
Plectrocheilus sp. Very little other annual
or herbaceous cover between shrub
layers except for *Spinifex*.

7341 *Spinifex* (<sup>*Stropis maculosa*,
Stropis sp. 1, *Goniacia* sp. (skel),</sup> *Triodia basedowii*) on
lateritic stoney flat. Odd. *A. tetragonophylla*
^{*Parazelum*, *Trubripec* sp. genus nov. 48 sp. 1,}
and small *Cassia* sp. Little plant cover.
^{*Microla* sp. 7, *Desertaria longirufa*, *Macrotoma*}
Annuals scattered and composed of *Trichoneum*
^{sp. 11 (8), *Ruscuphia hirsuta*, *Azidota ochracea*}
exultatum, *Anata arenaria* and *Amaranthus* sp.

7350 *A. anura* sand plain bearing.
^{*Azidota ochracea*, *Desertaria longirufa*,}
A. anura *Eremophila* sp. *Triodia basedowii*
^{*Umisella* sp.}
in patches together with *Danthonia bipetala*,
Erag. aeropoda and miscellaneous composites
makes a sparse cover - Very dry.

7373 Sand plain bearing *Euc. (nsp)*
^{*Azidota* sp. 1, *Ruscuphia hirsuta*,}
A. ramulosa, *Grevillea junctifolia*
^{*Umisella* sp.}
and *Triodia basedowii*, Some bushes

of *Thripteromeria* sp.

7382 Mt. Lindsey. Huge granite range with extensive sheet domed granite faces.

At base, *Euc. terminalis*, *Acacia* spp.

Genus nov. 56 sp. 2, *Chorizanthe terminalis*, and miscellaneous shrubs. *Triodia* present *Goniaca* sp., *Apobrycon sulphureus*, in isolated clumps. High up *Cal. glauca* *Macrotona* sp. 29, *Goniocarpus* sp. 1, *Agelota* present together with native fig.

Ochraea, *Desfontainia* sp. 4, *Mimosa* *Mountain rises sheer from sand plain* *sulcata* bearing *Hakea laurina*, *A. amara* and

A. ligulata. Miscellaneous pasture species including *Horst. armaria* *Erag. eriopoda* *Kochia* and *Bassia*'s. All dry.

7397 *A. amara* *Triodia basedowii*

Genus nov. 48 sp. 1, Genus nov. 64 sp. 1 sandplain with scattered annual growth in areas where *Triodia* is

absent, composed of *Amaranthus* sp (fox tail) *Danthonia bipitata*, *Erag. eriopoda* and several small composites.

All dry except for *Danthonia*.

7417 *A. kempiana* on travertine ridge

Genus n. sp. 64 sp. 1
with *Triodia* understorey. Few annuals
& those present confined to roadside.

1 Fly taken.

7424 Cheeseman Peak on right

7428 Camped [8-10.30 pm]

20.10.60

7428 ~~Camped~~ ^{Departed}

7446 Lateritic stony range running
from sand plain westwards.

^{Triodia}
Lower slope bearing *A. aneura*, *Triodia*
basidownii and *Eragrostis aeropoda*.
Higher region reverts from ^{sand} ~~stone~~ to
lateritic stones bearing *A. aneura*
and *Cremophila gilesii*. Some *Eragrostis*
aeropoda on rocky scarp. All very dry.

7462 Sand dunes bearing *Euc.* n. sp.
^{*Parazizium rubripes*, Genus n. sp. 64}
Grev. juncea folia with *Triodia basidownii*
^{sp. 1, *Utricularia* sp.}
Very dry.

7476 Blaze Emu III

7478 Top of sand dune. *A. ramulosa* only. *Euphorbia quadrifida* L. only. *Euphorbia* from Sida bush, only odd plants, few dicostylis.

7485 Side of sand dune bearing *A. ramulosa* with isolated *Euc. nap.* *longirugosa*, *Paranephthium rubroscum*, *Conocarpus* sp.; some *Triodia basedowii*. Odd dead *Gummiella* sp., *Apotropis sulphurea*, *Eragrostis aeropoda* and *Danthonia bipartita*. *Psychotria ochracea*, *Coryphantha* sp. (S). Extremely dry.

7508 Flat between dunes, bearing *A. amara* and *A. ramulosa*. Ground cover sparse composed of *Danthonia bipartita*, *Eragrostis aeropoda*, some *Amorpha arenaria*. Extremely dry.

7516 Sandy rise bearing *A. amara* and *Euc. (desert gum)* with *Triodia ochracea*, *Microla* sp. (S), *Pardalipia* sp. (S), sp. and mixed *Danthonia* and *Eragrostis aeropoda*. Mainly dry.

7542 Camped 8.30pm - 10pm.

21.10.60 Depart 7542

7542 Beadell blaze. Emu 46.
190 sand ridges in 70m. → to Nth.
No 55

7543 Travertine area with sandy flat
between dunes. *Tapesta* sp., *Azobolus ochraceus*, *Aporopis*
Caec. cristata, *Euc. concina*,
sulphuripennis, *Goniocaulon* spp. (3), *Pardilliana*,
and *Cassia* sp. dominant on Travertine area
Eragrostis aeropoda, *Eremophila*, and *Stipa*
nitida scattered thinly throughout.
Monarda nymphs present. Sandy area
dominated by *A. ramulosa*. Dry.
but evidence of good season.

7554 As above with *A. ramulosa* present.
Qualefta maculata
& *Cassia Sturtii*

7588 Emu. Fly trapping⁺.

22.10.60

7588 Dept. Emu. Gale winds.

7604 Sand plain with slight
Utricularia guttulosa
undulations bearing *A. anura*, *A.*
ramulosa, *A. ligulata*, *Doedanea athena*.
Isolated clumps of *Euc. leosa* present.
Ground cover *Danthonia bipartita*,
Eragrostis aeropoda and some *Eucalyptus*
Very Dry

7617 Observatory Hill.

7631 Sand dune and flat bearing *Amisella* sp.
A. ramulosa, *A. aneura*, and *Eremophila*
stuartii. Ground cover good composed
of *Danthonia bipitata*, *Aristida arenaria*,
Eragrostis aeropoda and some mixed
composite sp. Area green after apparently
recent showers. Nymphs present.

7648 Sand plain bearing *A. ramulosa*.
Urtica *guttulosa*, *Rhynchospora*
occas, *Cas. cristata*, *A. ligulata* and
Cassia *phyllodes*. Ground mixed composed
of *Stipa mitida*, *Erag. aeropoda*,
Ennechogon sp and *Parakeelya*.
Bassia's and *Kochia triptera* mainly
under *Casuarinas*.

7707 Maralinga

7713 Mallee *Euc oleosa* and *Triodia*
Spodopis vittata, *Rhus* *sp.*
with mixed shrub layer although sparse
R. triptera, *Zygophyllum* remainder
of ground cover.

7721 Desert sandhills bearing
Apotropis vittata
A. ramulosa, *Euc oleosa*, *Myoporum*
platycarpum as dominants. Ground
 cover sparse dominated by *Kochia*
triptera, with *Stipa* sp and debris
 of *Lepidium* sp Very dry.

7729 Open limestone plain, bearing
Apotropis sp. 5, *Tapesta* sp.
A. vericaria, *Salsola* sp, *Bassia* sp
 and some *Stipa*; for most part dry.

7733 Watson Temp - 9 pm

Urnsagittulosa, *Qualitta maculata*.

7733 Depart 23-10-60

7739 Open limestone plain, bearing
Macrolopholia sp, *Genus nov. 32* sp.,
Apotropis sp. 5, *Tapesta* sp.
A. vericaria, *Salsola kali*, *Bassia* sp.
 and some *Stipa*. Area relatively
 dry.

7752 Open limestone plain bearing
Urnsagittulosa, *Urnsiella* sp (j.), *Tapesta* sp.
Moraba sp. P33, *Qualitta maculata*,
Kochia pedifolia, *Sida* sp and *Stipa*.
Chortorichia hemisphaera, *Macrolopholia* sp.
Sida ~ *Stipa* green.

7753 *Ooldea*

7768 Undulating limestone to plains
 bearing *Kochia sedifolia*, *Bassia* sp.
ochracea, *Dryadella maculata*
 and in depressions *Enneapogon* sp
 and *Stipa nitida*. Dry.
 Govt. Tank here.

7800 Open plain; degenerate
Austracniguttulosa, *Typaya* sp.,
A. vesicaria area bearing *Bassia* sp
Chortocetes tenuifera, *Apotropis* sp. 5,
 as dominant with *Stipa nitida*,
Typaya *Topcala* sp., *Austroicetes nullabensis*
Danthonia semi-annulata and

Salsola kali. All dry except the *Bassia*,
 7816 Area of *A. vesicaria* on clayish

7816 limestone stony soil. *Stipa nitida*
Moraba sp. P33, *Typaya* sp., *Macrotona*
 sp. 16, *Austracniguttulosa*, *Kzclota ochracea*
 in patches. Mainly dry except for
vesicaria. Govt. Tank.

7831 *A. saundersii* with *A. vesicaria*
Typaya sp., *Germs* nov. 32 sp., *Psopulia*
 as a shrub layer. Some *K. triptera*
 sp. 9, *Apotropis* sp. 5, *Umisia rugosa*,
 confined mainly to base of trees.
Kzclota ochracea, *Austroicetes frabers*
Stipa & small composites present
Germs nov. 32 sp.
 between salt bush plants.

7844 Colona.